



Universidad Complutense de
Madrid

IPARCOS astro-seminar



Wednesday, March 17th 2021, @ 17:00pm (CET) (in Zoom)

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A tale of two stellar characterisation codes: StePar and SteParSyn

Abstract: In this talk, I describe two state-of-the-art codes designed to characterize the spectra of late-type stars. StePar is a Python 3.X code that implements the EW method to calculate stellar atmospheric parameters (T_{eff} , $\log(g)$, and $[\text{Fe}/\text{H}]$) of FGK stars. It has been employed to analyze myriads of high-resolution stellar spectra of Gaia-ESO Survey stars, among others. On the other hand, SteParSyn is yet another Python 3.X code designed to retrieve the distribution of the stellar atmospheric parameters by means of spectral synthesis. The SteParSyn code implements a robust Bayesian scheme that rests on a Markov Chain Monte Carlo sampler. In addition, it has been used to characterize stars belonging to the Milky Way and the Magellanic clouds. Finally, these two codes have been used in a variety of astrophysical scenarios that are of great interest to the astronomical community.

The Zoom link will be provided on Wednesday morning

A full list of the IPARCOS astro seminars and colloquia: [here](#)